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Dethe Elza

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EXAMINER

BASHORE, WILLIAM L

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/817,045	Applicant(s) ELZA ET AL.	
	Examiner William L. Bashore	Art Unit 2176	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 November 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-67 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-67 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is responsive to the following communications: Request for Reconsideration (hereinafter the Request) filed 11/30/2007.
2. Claims 1-67 are currently pending, with claims 1 and 32 being the independent claims.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. **The claimed invention, as claimed in claims 1-31, is directed to non-statutory subject matter.**

In regard to independent claim 1, claim 1 recites a system. Absent clarification in said claim directing said claim to include hardware, said claim can be fairly interpreted as software per se (i.e. a software system, data structures, etc.), therefore said claim is not tied to a technological art, environment or machine, which would result in a practical application producing a concrete, useful and tangible result to form the basis of statutory subject matter under 35 USC 101. Accordingly, said claim is directed to non-statutory subject matter.

In regard to dependent claims 2-31, each of said claims do not recite items rendering Applicant's invention as statutory under 35 USC 101, therefore each said claim is rejected for fully incorporating the deficiencies of their respective base claims.

Claims Rejections – 35 U.S.C. 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-2, 6-8, 14, 17, 30-31, 56, and 65-67 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Iverson, Lee, “NODAL: A Filesystem for Ubiquitous Collaboration,” White Paper, SRI International, September 20, 2001 [hereinafter “NODAL”WEST 2.2 (updated search enclosed)].

Regarding **independent claim 1, as amended**, NODAL teaches:

A system for sharing a hierarchical document, the hierarchical document having a node, comprising:

(See, NODAL, pages 1-32, teaching sharing a hierarchical document and the hierarchical document having nodes.)

a component that receives an indication of a privilege for the node, the privilege indicating access rights for the node and determined based on another node of the hierarchical document, the indication including a holder of the privilege;

(See, NODAL, pages 17-18, teaching the “user” identity object, which contains content access. See also, NODAL, page 17, last full paragraph, teaching that the access rights are determined based on another node, specifically a password.)

a component that receives an access request to the node from a requestor; and

(See, NODAL, pages 18-21, teaching the “cursor” object, which is the portal for accessing mutation interfaces and evaluate permissions.)

a component that handles the received access request, wherein the handling includes determining whether the requestor is a holder of a privilege that is appropriate for the received access request.

(See, NODAL, pages 18-21, teaching the “cursor” object, which is the portal for accessing mutation interfaces and evaluate permissions. See also, NODAL, pages 17-18, teaching that the permissions are contained in the “user” object, which identifies the user, among other functions.)

Regarding **dependent claim 2**, NODAL teaches:

The system of claim 1 wherein the holder of the privilege is a user.

(See, NODAL, pages 17-18, teaching the “user” identity object.)

Regarding **dependent claim 6**, NODAL teaches:

The system of claim 1 wherein the system receives an indication of the holder from an operating system.

(See, NODAL, page 20, teaching the “pedigree” and the identification of the user.)

Regarding **dependent claim 7**, NODAL teaches:

The system of claim 1 wherein the system authenticates the holder.

(See, NODAL, pages 17-27, teaching security of access.)

Regarding **dependent claim 8**, NODAL teaches:

The system of claim 1 wherein the received access request is a mutation relating to a node.

(See, NODAL, pages 17-27, teaching security of access and requests for mutation of the document.)

Regarding **dependent claim 14**, NODAL teaches:

The system of claim 1 wherein the holder holds multiple privileges.

(See, NODAL, page 18, teaching that the “user” object may hold multiple privileges.)

Regarding **dependent claim 17**, NODAL teaches:

The system of claim 1 wherein the holder holds a different privilege on attributes of the node.

(See, NODAL, page 18, teaching that the capabilities to be modified are controlled by the node and that a user may have a variety of capabilities or privileges in the “user identity” object.)

Regarding **dependent claim 30**, NODAL teaches:

The system of claim 1 wherein the handling includes returning a message comprising an indication of mutations to users of the system.

(See, NODAL, page 27, teaching acknowledgement messaging from the server to the client. Note that the server may send any message to the client at any time.)

Regarding **dependent claim 31**, NODAL teaches:

The system of claim 30 wherein the message includes only information for which a recipient of the message holds an appropriate privilege.

(See, NODAL, page 27, teaching acknowledgement messaging from the server to the client, who inherently holds the privilege for that indicated mutation.)

Regarding **dependent claim 56**, NODAL teaches:

The method of claim 54 wherein the mutation is to remove an attribute.

(See, NODAL, pages 20-21, teaching attributes including last modification time, etc. and modifications to the “timestamp” from mutations of the document.)

Regarding **dependent claim 65**, NODAL teaches:

The method of claim 32 wherein the access request identifies the node with a unique identification.

(See, NODAL, page 11, teaching unique node identifiers.)

Regarding **dependent claim 66**, NODAL teaches:

The method of claim 32 wherein the access request is received as a message.

(See, NODAL, page 27, teaching messaging.)

Regarding **dependent claim 67**, NODAL teaches:

The method of claim 66 wherein the message is represented in XML.

(See, NODAL, pages 28-29, teaching that the system may be enabled in XML.)

Regarding **claims 32, 33, 37, 38, 39, 46, 49, 63, and 64**, claims 32, 33, 37, 38, 39, 46, 49, 63, and 64 incorporate substantially similar subject matter as claimed in claims 1, 2, 6, 7, 8, 14, 17, 30, and 31, respectively, and are rejected along the same rationale.

5. It is noted that any citations to specific, pages, columns, lines, or figures in the prior art references and any interpretation of the references should not be considered to be limiting in any way. A reference is

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relevant for all it contains and may be relied upon for all that it would have reasonably suggested to one having ordinary skill in the art. See, MPEP 2123.

Claims Rejection – 35 U.S.C. 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 3-5, 9-13, 15-16, and 18-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iverson, Lee, “NODAL: A Filesystem for Ubiquitous Collaboration,” White Paper, SRI International, September 20, 2001 [hereinafter “NODAL”], as applied to claims 1 and/or 2 above and further in view of Bray, et al. (U.S. Patent 6,529,905 B1, filed January 11, 2000, and issued May 4, 2003) [hereinafter “Bray”].

Regarding **dependent claim 3**, NODAL in view of Bray teaches:

The system of claim 2 wherein the holder is an application program.

(NODAL teaches the limitations of claims 1 and 2 above, but does not expressly teach that the holder of privileges may be an application program.

Bray expressly teaches that “A user may be a computer process or an actual person working at a workstation.” Bray, col. 1, lines 53-55.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have combined the teachings of NODAL with those of Bray to result in a multi-user hierarchical versioning system wherein a user may be a computer application.

Both NODAL and Bray involve the same field of endeavor, multi-user hierarchical document versioning systems.

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The suggestion or motivation to combine the two references is drawn from the express statement in Bray that the system may be operated by a user or a computer process.)

Regarding **dependent claim 4**, NODAL in view of Bray teaches:

The system of claim 2 wherein the holder is an operator of an application program.

(NODAL teaches the limitations of claims 1 and 2 above, but does not expressly teach that the holder of privileges may be the operator of an application program.

Bray expressly teaches that “A user may be a computer process or an actual person working at a workstation.” Bray, col. 1, lines 53-55. This inherently includes an operator of the program or computer process.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have combined the teachings of NODAL with those of Bray to result in a multi-user hierarchical versioning system wherein a user may be a computer application.

Both NODAL and Bray involve the same field of endeavor, multi-user hierarchical document versioning systems.

The suggestion or motivation to combine the two references is drawn from the express statement in Bray that the system may be operated by a user or a computer process. A “person at a workstation” is inherently a user of an application, and it would have been obvious to one of ordinary skill in the art at the time of the invention to grant the privileges to the person using the privileges. This suggestion to make the actual user the holder of the privileges is also suggested by NODAL which manages privileges from the “user” object. See, NODAL, pages 17-18.)

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Regarding **dependent claim 5**, NODAL in view of Bray teaches:

The system of claim 1 wherein the holder is a client computing device.

(NODAL teaches the limitations of claim 1 above, but does not expressly teach that the holder of privileges is a client computing device.

Bray expressly teaches that “A user may be a computer process or an actual person working at a workstation.” Bray, col. 1, lines 53-55.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have combined the teachings of NODAL with those of Bray to result in a multi-user hierarchical versioning system wherein a user may be a computer application. It would have also been obvious to one of ordinary skill in the art at the time of the invention that the computer on which the application resides may be designated as the user. It was well known to one of ordinary skill in the art at the time of the invention to identify a client terminal with certain access privileges, e.g. public terminals made available in libraries and public offices which may access internal documents in those institutions.

Both NODAL and Bray involve the same field of endeavor, multi-user hierarchical document versioning systems. Both NODAL and Bray teach systems compatible with either a client/server or peer-to-peer environment.

The suggestion or motivation to combine the two references is drawn from the express statement in Bray that the system may be operated by a user or a computer process.)

Regarding **dependent claim 9**, NODAL in view of Bray teaches:

The system of claim 8 wherein the indication of an access request indicates the node.

(NODAL teaches the limitations of claims 1 and 8, above, but it does not expressly teach the limitation wherein an access request indicates the node.

Bray expressly teaches that an access request indicates the node and further that an appropriate edit lock is placed on the node. See, Bray, col. 2, line 63 through col. 3, line 31.

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It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 10**, NODAL in view of Bray teaches:

The system of claim 8 wherein the privilege is appropriate for the received access request when the mutation and privilege are both Insert.

(NODAL teaches the elements of claims 1 and 8, above, but it does not expressly teach the limitation wherein an access request indicates the node.

Bray expressly teaches that an access request indicates the node and further that an appropriate edit lock is placed on the node. See, Bray, col. 5, lines 45-48, teaching that when a lock request is received identifying a target element and lock type, the first step is to check for appropriate permissions to set the lock, inherently including permission to make the requested type of edit.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

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Regarding **dependent claim 11**, NODAL in view of Bray teaches:

The system of claim 8 wherein the privilege is appropriate for the received access request when the mutation and privilege are both Update.

(NODAL teaches the elements of claims 1 and 8, above, but it does not expressly teach the limitation wherein an access request indicates the node.

Bray expressly teaches that an access request indicates the node and further that an appropriate edit lock is placed on the node. See, Bray, col. 5, lines 45-48, teaching that when a lock request is received identifying a target element and lock type, the first step is to check for appropriate permissions to set the lock, inherently including permission to make the requested type of edit.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 12**, NODAL in view of Bray teaches:

The system of claim 8 wherein the privilege is appropriate for the received access request when the mutation and privilege are both Delete.

(NODAL teaches the elements of claims 1 and 8, above, but it does not expressly teach the limitation wherein an access request indicates the node.

Bray expressly teaches that an access request indicates the node and further that an appropriate edit lock is placed on the node. See, Bray, col. 5, lines 45-48, teaching that when a lock request is received identifying a target element and lock type, the first step is to check for appropriate permissions to set the lock, inherently including permission to make the requested type of edit.

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It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 13**, NODAL in view of Bray teaches:

The system of claim 1 wherein the privilege is appropriate for the received access request when the received access request is Read and the privilege is Insert.

(NODAL teaches the elements of claims 1, above, but it does not expressly teach the limitations of Read and Insert.

Bray expressly teaches that an access request indicates the node and further that an appropriate edit lock is placed on the node. See, Bray, col. 5, lines 45-48, teaching that when a lock request is received identifying a target element and lock type, the first step is to check for appropriate permissions to set the lock, inherently including permission to make the requested type of edit.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 15**, NODAL in view of Bray teaches:

The system of claim 1 wherein the holder holds the privilege on descendants of the node merely by holding a privilege on the node.

(NODAL teaches the elements of claim 1, above, but it does not expressly teach the limitations of holding privilege on descendants of the node merely by holding a privilege on the node.

Bray expressly teaches that an access request indicates the node and further that an edit lock is placed on the children of the node. See, Bray, col. 6, lines 65 through col. 7, line 6.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 16**, NODAL in view of Bray teaches:

The system of claim 15 wherein the privilege is Delete.

(Nodal teaches the limitations of claims 1 and 15, above, but it does not expressly teach the limitation wherein the privilege is Delete.

Bray expressly teaches the Delete privilege. See, Bray, col. 8, line 63 through col. 9, line 64.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 18**, NODAL in view of Bray teaches:

The system of claim 17 wherein the privilege is Insert and the different privilege is Read.

(Nodal teaches the limitations of claims 1 and 17, above, but it does not expressly teach the limitation wherein the privileges are Insert and Read. See, NODAL, page 18, teaching that the capabilities to be modified are controlled by the node and that a user may have a variety of capabilities or privileges in the “user identity” object. See, also, NODAL, pages 18-20, teaching inserting a node.

Bray expressly teaches the viewing, or read, function. See, Bray, col. 6, lines 43-49.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 19**, NODAL in view of Bray teaches:

The system of claim 17 wherein the holder does not hold the privilege on descendants of the node merely by holding the privilege on the node.

(Nodal teaches the limitations of claims 1 and 17, above, but it does not expressly teach the limitation wherein the holder does not hold the privilege on descendants of the node merely by holding the privilege on the node.

Bray expressly teaches that if the authoring environment does not track versioning that the parents and children are not locked during an edit request. See, Bray, col. 7, lines 59-67.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

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The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 20**, NODAL in view of Bray teaches:

The system of claim 1 wherein the holder does not hold a privilege on a descendant of the node merely by owning the privilege on the node.

(Nodal teaches the limitations of claim 1, above, but it does not expressly teach the limitation wherein the holder does not own the privilege on descendants of the node merely by holding the privilege on the node.

Bray expressly teaches that if the authoring environment does not track versioning that the parents and children are not locked during an edit request. See, Bray, col. 7, lines 59-67.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 21**, NODAL in view of Bray teaches:

The system of claim 1 wherein the holder holds a different privilege on a parent of the node.

(Nodal teaches the limitations of claim 1, above, but it does not expressly teach the limitation wherein the holder a different privilege on a parent of the node.

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Bray expressly teaches a create lock on the target's parent and an edit lock on a target's children in an edit function. See, Bray, col. 7, lines 53-58.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 22**, NODAL in view of Bray teaches:

The system of claim 21 wherein the holder is privileged to request a mutation relating to the parent.

(Nodal teaches the limitations of claim 1, above, but it does not expressly teach the limitations of claim 21 or the limitation wherein the holder is privileged to request a mutation relating to the parent node.

Bray expressly teaches a create lock on the target's parent and an edit lock on a target's children in an edit function. See, Bray, col. 7, lines 53-58. Because the lock on the parent is a "create" lock, it is inherent that the holder is privileged to request a mutation of the parent.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 23**, NODAL in view of Bray teaches:

The system of claim 22 wherein the mutation is to remove the node.

(Nodal teaches the limitations of claim 1, above, above, but it does not expressly teach the limitation of claims 21 or 22 or the limitation wherein the mutation is to remove the node.

Bray expressly teaches a create lock on the target's parent and an edit lock on a target's children in an edit function. See, Bray, col. 7, lines 53-58. Because the lock on the parent is a "create" lock, it is inherent that the holder is privileged to request a mutation of the parent, including a delete request.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 24**, NODAL in view of Bray teaches:

The system of claim 1 wherein multiple holders hold the privilege.

(Nodal teaches the limitations of claim 1 above, but it does not expressly teach the limitation wherein multiple holders hold the privilege.

Bray expressly teaches that multiple users may hold an edit privilege. See, Bray, claim 1, stating that multiple users may hold a privilege to edit a node.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray

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teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 25**, NODAL in view of Bray teaches:

The system of claim 1 wherein the holder of the privilege is a privilege group.

(Nodal teaches the limitations of claim 1, above, but it does not expressly teach the limitation wherein the holder of the privilege is a privilege group.

Bray expressly teaches that multiple users may hold an edit privilege. See, Bray, claim 1, stating that multiple users may hold a privilege to edit a node. It is inherent that a group with the same privilege may be considered a privilege group.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 26**, NODAL in view of Bray teaches:

The system of claim 25 wherein the privilege group has multiple members.

(Nodal teaches the limitations of claim 1, above, but it does not expressly teach the limitation of claim 25 or the limitation wherein the privilege group has multiple members.

Bray expressly teaches that multiple users may hold an edit privilege. See, Bray, claim 1, stating that multiple users may hold a privilege to edit a node. It is inherent that a privilege group comprised of multiple members with the same privilege contain multiple members.

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It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 27**, NODAL in view of Bray teaches:

The system of claim 26 wherein the member is an application program.

(Nodal teaches the limitations of claim 1, above, but it does not expressly teach the limitations of claims 25 or 26 or the limitation wherein the privilege group has multiple members.

Bray expressly teaches that multiple users may hold an edit privilege. See, Bray, claim 1, stating that multiple users may hold a privilege to edit a node. It is inherent that a privilege group comprised of multiple members with the same privilege contain multiple members. Note also, Bray, col. 1, lines 53-54, teaching that a user includes a computer process.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 28**, NODAL in view of Bray teaches:

The system of claim 26 wherein the member is an operator of an application program.

(Nodal teaches the limitations of claim 1, above, but it does not expressly teach the limitation of claims 25 or 26 or the limitation wherein the member is an operator of an application program.

Bray expressly teaches that multiple users may hold an edit privilege. See, Bray, claim 1, stating that multiple users may hold a privilege to edit a node. It is inherent that a privilege group comprised of multiple members with the same privilege contain multiple members. Note also, Bray, col. 1, lines 53-54, teaching that a user includes a computer process. It is obvious that an operator of an application that is a member of a user group may be included in the user group for purposes of identification of the privilege holder in the document pedigree.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 29**, NODAL in view of Bray teaches:

The system of claim 26 wherein the member is a client computing device.

(Nodal teaches the limitations of claim 1, above, but it does not expressly teach the limitation of claims 25 or 26 or the limitation wherein the member is a client computing device.

Bray expressly teaches that multiple users may hold an edit privilege. See, Bray, claim 1, stating that multiple users may hold a privilege to edit a node. It is inherent that a privilege group comprised of multiple members with the same privilege contain multiple members. Note also, Bray, col. 1, lines 53-54,

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teaching that a user includes a computer process. It is obvious that a computer process may also include identification of the computing device as part of the identification of the source of the mutation request for purposes of the pedigree.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 41**, NODAL in view of Bray teaches:

The method of claim 39 wherein a privilege is appropriate for the received access request when the mutation and privilege are both Read.

(Nodal teaches the limitations of claim 39, above, but it does not expressly teach the limitation wherein a privilege is appropriate when a mutation and privilege are both Read.

Bray expressly teaches that multiple users may hold a viewing privilege. See, Bray, col. 6, lines 42-49.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 42**, NODAL in view of Bray teaches:

The method of claim 39 wherein a privilege is appropriate for the received access request when the mutation and privilege are both Insert.

(Nodal teaches the limitations of claim 39, above, but it does not expressly teach the limitation wherein a privilege is appropriate when a mutation and privilege are both Insert.

Bray expressly teaches that multiple users may hold a create privilege. See, Bray, col. 8, lines 3-59.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 43**, NODAL in view of Bray teaches:

The method of claim 39 wherein a privilege is appropriate for the received access request when the mutation and privilege are both Update.

(Nodal teaches the limitations of claim 39, above, but it does not expressly teach the limitation wherein a privilege is appropriate when a mutation and privilege are both Update.

Bray expressly teaches that multiple users may hold an edit privilege. See, Bray, col. 6, line 52 through col. 7, line 67.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **dependent claim 44**, NODAL in view of Bray teaches:

The method of claim 39 wherein a privilege is appropriate for the received access request when the mutation and privilege are both Delete.

(Nodal teaches the limitations of claim 39, above, but it does not expressly teach the limitation wherein a privilege is appropriate when a mutation and privilege are both Delete.

Bray expressly teaches that multiple users may hold a delete privilege. See, Bray, col. 8, line 63 through col. 9, line 64.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of NODAL with those of Bray.

The suggestion or motivation to combine the references is drawn from the fact that NODAL teaches a multi-user hierarchical document editing system from a less specific viewpoint, while Bray teaches the same system with emphasis on the locking editing and locking functions. The references teach the same art with varying degrees of detail for specific functions.)

Regarding **claims 34-36, 40, 45, 47-48, and 50-62**, claims 34-36, 40, 45, 47-48, and 50-62 incorporate substantially similar subject matter as claimed in claims 3-5, 9, 13, 15-16, and 18-29, respectively, and are rejected along the same rationale.

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7. It is noted that any citations to specific, pages, columns, lines, or figures in the prior art references and any interpretation of the references should not be considered to be limiting in any way. A reference is relevant for all it contains and may be relied upon for all that it would have reasonably suggested to one having ordinary skill in the art. See, MPEP 2123.

Response to Arguments

8. Applicants' arguments filed November 30, 2007 have been fully and carefully considered, but they are not persuasive.

Applicant argues on pages 11 of the Request that NODAL does not teach indication of access rights. The Examiner respectfully disagrees. As previously explained, Nodal teaches to check an additional node, specifically checking passwords (NODAL, page 17, last full paragraph). Since, the password is in another (i.e. related) node, checking for access rights involves checking for passwords associated with said related node. It is the examiner's opinion that checking passwords are at least associated with access rights attributed to specific node(s).

It is noted that a new ground(s) of rejection under 35 USC 101 are applied to the pending claims.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William L. Bashore whose telephone number is (571)272-4088. The examiner can normally be reached on 9:00 am - 5:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Hutton can be reached on (571) 272-4137. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/William L Bashore/
William L. Bashore
Primary Examiner
Tech Center 2100

February 18, 2008